

HEALTH & SAFETY

A CURTIS STOUT DIVISION



CURTIS STOUT

HEALTH & SAFETY

CURTIS STOUT HEALTH & SAFETY DIVISION PROVIDES QUALITY PRODUCTS TO KEEP CUSTOMERS SAFE WHILE PERFORMING THEIR JOBS. FROM MEDICAL, INDUSTRIAL, AND COMMERCIAL PPE TO DISINFECTION LIGHTING FOR ALL TYPE OF APPLICATIONS.

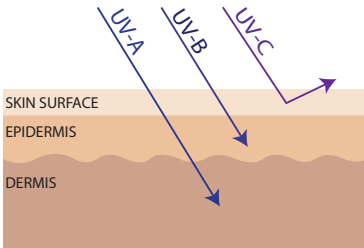
- DISINFECTION LIGHTING
- THERMAL CAMERAS
- AIR QUALITY SOLUTION
- PERSONAL PROTECTIVE EQUIPMENT

ABOUT UV LIGHT

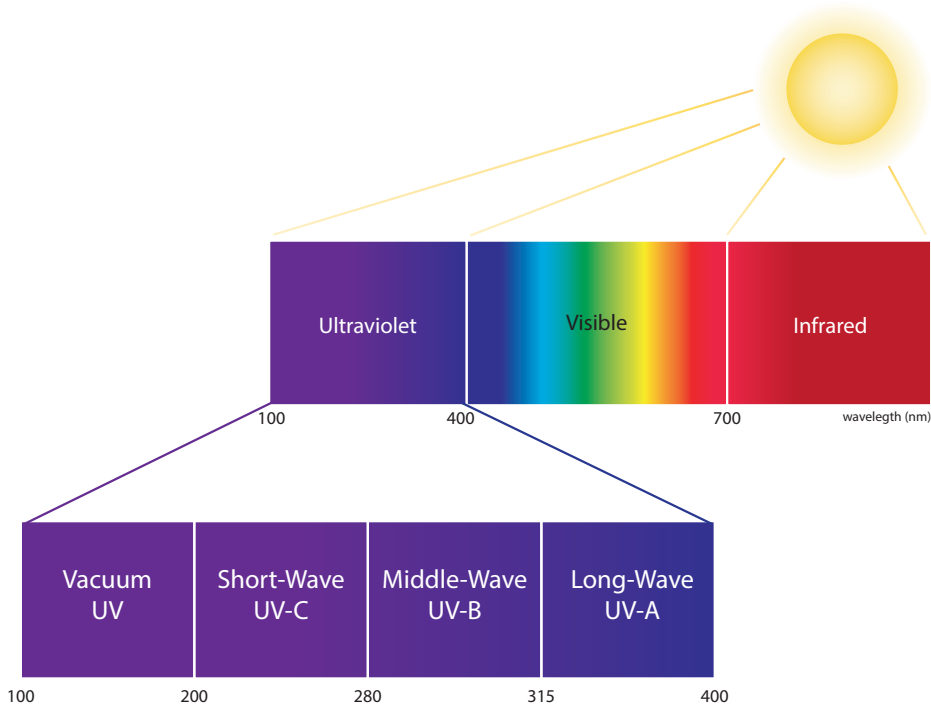
GERMICIDAL ULTRAVIOLET RADIATION FOR DISINFECTION

THE MOST COMMON FORM OF UV RADIATION IS SUNLIGHT, WHICH PRODUCES THREE MAIN TYPES OF UV RAYS

- Like all forms of light on the EM spectrum, UV radiation is classified by wavelength.
- UV-A rays have a longer wavelength that can penetrate the middle layer of the skin (the Dermis)
 - UV-B rays have a short wavelength that reaches the outer layer of the skin (the Epidermis)
 - UV-C rays are almost entirely absorbed by the outer dead layer and outer skin with limited penetration to the deeper layers of skin where new cells are created



Wavelengths in the photobiological ultraviolet spectral band known as UV-C from 200-280 nanometers (nm) have been shown to be the most effective for disinfection, although longer wavelengths can disinfect if applied in much greater doses.



PURO™

UV Disinfection Lighting

PURO LIGHTING IS FIGHTING VIRUSES WITH UV LIGHT DISINFECTION

USE THE POWER OF PROVEN BROAD-SPECTRUM UV LIGHT TO RAPIDLY DISINFECT THE SPACES WHEREVER PEOPLE GATHER

EFFICACY OF UV DISINFECTION AGAINST VIRUSES

America and the world are looking for a trusted, fast, effective and proven solution to disinfecting potentially contaminated environments wherever people gather, from schools and hospitals to subway stations, restaurants and more.

Puro Lighting’s Helo and Sentry UV disinfection lighting products, powered by Violet Defense™ technology, represent a significant breakthrough in viral protection and clinical level disinfection. Puro Lighting uses a powerful, broad-spectrum light, including germicidal UV-C, UV-B and anti-bacterial UV-A to optimize their germ-killing efficiency.

Puro Lighting has independent clinical testing confirming disinfection of viruses, bacteria, and fungal pathogens. Our UV disinfection lights have been proven to rapidly kill up to 99.9% of Norovirus, C. diff, E. coli, Salmonella, MRSA, and C. auris. Per the EPA emerging pathogen guidelines from 2016 and based on clinical testing completed, our UV lights will have efficacy against Class 2 and 3 viruses, including coronaviruses, SARS, Influenza and Ebola.

APPLICATIONS

HOSPITALS • NURSING HOMES • SCHOOL • CRUISE SHIPS • RESTAURANTS • HOTELS • OFFICES • MASS TRANSIT
AND WHEREVER PEOPLE GATHER



PRODUCTS



HELO™ SERIES - UV PROTECTION FROM ABOVE

The first known high intensity, full spectrum UV disinfection fixture to be installed in the ceiling, Helo fixtures provide unparalleled whole-room clinical level cleaning in any size space, along with the ability to disinfect on demand in one cycle.



SENTRY™ SERIES - PORTABLE UV PROTECTION

The Sentry Mobile series provides incredibly easy mobility to help stop the spread of harmful viruses anywhere. Sentry Mobile products are designed for easy positioning and simple control, emitting powerful, broad-spectrum UV light to eliminate 99.9% of the bacteria and viruses in the space.

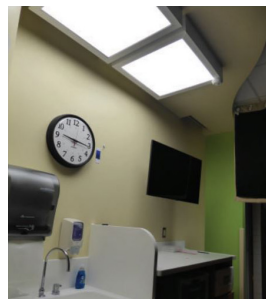


CURRENT'S 365DisInFx™ TECHNOLOGY THE IDEAL GERMICIDAL UV SOLUTION FOR ANY OCCUPIED SPACE

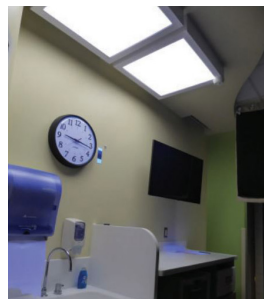
Current's Disinfection products have the ability to significantly reduce pathogens commonly present in hospital environments. Reducing the potential for Healthcare Associated Infections (HAIs) by leveraging existing lighting infrastructure.

HIGHLIGHTS

- UP TO 99.7% REDUCTION OF COMMON PATHOGENS ON SURFACE OVER 8 HOURS AT 3W/M² VIA IN-VITRO TESTING.* (MRSA, bacteriophage MS2, Staphylococcus aureus, Enterococcus faecalis, Escherichia coli, Acinetobacter baumannii, Pseudomonas aureuginosa, Candida albicans and auris.)
NOTE: 99.7% kill rate achieved on MRSA only
- CURRENT'S DISINFECTION TECHNOLOGY IS SAFE FOR HUMAN EXPOSURE PER THE IEC GUIDELINES. * IEC photobiological Safety Standard 62471
- 365nm UV-A LIGHT EMITTED FROM THE FIXTURE IS INVISIBLE TO THE HUMAN EYE *
- DISINFECTION LIGHT CAN BE CONTROLLED INDEPENDENTLY OF WHITE LIGHT USING WIRED OR WIRELESS CONTROLS
- PERIODIC VS CONTINUOUS
The 8Hr Cycle: Provides an increased disinfection kill rate through high-intensity irradiance
The 24Hr Cycle: Provides low-level continuous disinfection kill rate through low-intensity irradiance



WHITE LIGHT ONLY



WHITE LIGHT + UV-A



UV-A ONLY

LBU RECESSED LUMINAIRE WITH 365DisInFx™ TECHNOLOGY

LBU22 SERIES - BACK LIT T-GRID, DISINFECTION SERIES D-LIGHT



Current's Lumination® LBU Series Recessed LED Luminaires offer a conventional look.

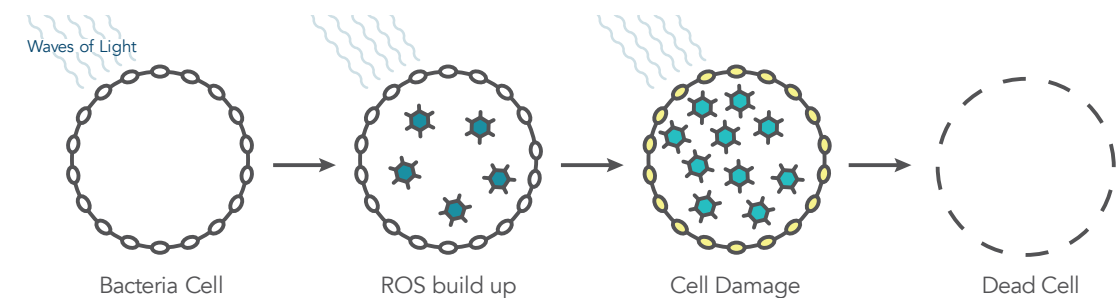
In addition to delivering a smooth uniform lit appearance with LED technology, LBU series also provides Current's 365DisInFx™ disinfection lighting technology in areas where both conventional light is needed and people are present.

* All claim are based upon the proper installation of fixture as detailed in Current's installation guide



ORION LED TROFFER RETROFIT POWERED BY vital vio

Vital Vio is a health tech company delivering a new class of antimicrobial light that reduces the impact of microbes in homes, public places, and industry. Unlike harmful chemicals, Vital Vio's finely-tuned, patented light continuously kills microbes and creates an inhospitable environment to inhibit their growth on surface.



Vital Vio's precise spectrum of light makes contact with specific molecules in bacteria cells. The molecules begin to create an excess of toxic Reactive Oxygen Species (ROS), which results in inactivation of the harmful cell. These activated molecules are unique to bacteria, and not human cells, making this spectrum of light appropriate for continuous and unrestricted use around humans, animals and plants.

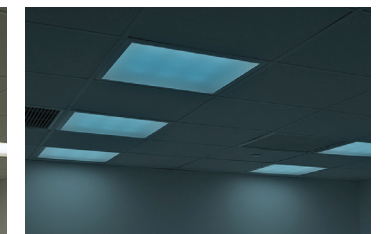
ISON™ LED LDR® Modular Healthcare | LDRMH1



Use ANTIMICROBIAL + LIGHT MODE when personnel are in the room for continuous antimicrobial actions, or use ENHANCED ANTIMICROBIAL MODE when illumination is not required. ENHANCED ANTIMICROBIAL MODE emits a higher dosage of Vital Vio's antimicrobial protection. Both modes meet international standards for continuous and unrestricted use around people.



ANTIMICROBIAL + LIGHT
MODE



ENHANCED ANTIMICROBIAL
MODE

- Patented LED troffer retrofit
- Prevent the growth of bacteria, fungi, yeast, and mold with Vital Vio Antimicrobial Light Technology
- Available with Britex, Orion's proprietary coating with antimicrobial properties
- Installs in minutes with minimal disruption
- Field upgradeable and interchangeable lighting modules
- 2,00 - 8,000 lumen packages
- Made in USA



CLEAN · HEALTHY · SAFE

WE HELP CREATE A CLEAN HEALTHY AND SAFE ENVIRONMENT

Through the use of innovative needlepoint bi-polar ionization (NBPI) technology, CHS Air Quality solution is leading the way for Indoor Air Quality (IAQ) by reducing energy, improving the environment, and addressing the three primary contributors to poor (IAQ): Particulates, Odors, & Pathogens; we help create a Clean, Healthy and Safe re-entry and beyond.

ENERGY: The ionization process allows commercial buildings to safely reduce the amount of outdoor air required to operate. This equates to a safe, comfortable environment while consuming as much as 20%-30% less energy.

PARTICULATES: During the ionization process, the airborne particulates (dust, pet dander, pollen) are treated and then drawn together increasing their size and mass. Larger particulates are more easily captured effectively increasing the efficiency of an HVAC system’s air filtration.

PATHOGENS: During the ionization process the ions created by the plasma generator attack and kill the virus, mold spores, and bacteria. The ions steal away hydrogen from the pathogens rendering them dead.

Advanced plasma air purification technology uses a precise electronic charge to create an electrical field filled with high concentrations of ions. When these ions break down passing pollutants and gases into harmless compounds like oxygen, carbon dioxide, nitrogen, and water vapor.

UNLIKE AIR PURIFICATION TECHNOLOGY WHICH RELIES ON ULTRAVIOLET LIGHT, THE IONS PRODUCED BY NEEDLEPOINT BI-POLAR IONIZATION (NBPI) CAN TRAVEL LONG DISTANCES WITHIN THE AIR STREAM, CLEANING THE AIR FAR FROM THE PHYSICAL LOCATION OF THE PLASMA GENERATOR.

THIRD PARTY TEST RESULTS

	KILL RATE	LAB	TYPE OF TEST
SARS-CoV-2	99.40% IN 30 MIN	INNOVATIVE BIOANALYSIS	SOLID SURFACE
C DIFFICILE	86.87% IN 30 MIN OR LESS	EMSL	SOLID SURFACE
E. COLI	99.68% IN 30 MIN OR LESS	EMSL	AIR
LEGIONELLA	99.71% IN 30 MIN OR LESS	EMSL	SOLID SURFACE
MRSA	96.24% IN 30 MIN OR LESS	EMSL	AIR
NOROVIRUS	93.5% IN 30 MIN OR LESS	ATS	AIR
VOC, AIR PARTICLE	100% IN 2 HRS OR LESS	GREEN CLEAN	AIR
ENTEROCOCCUS & S.AUREUS		UNIVERSITY OF ST. LOUIS	
BACTERIA/PATHOGEN		UPMC	SOLID SURFACE
MOLD	99.5% IN LESS THAN 4 DAYS	GREEN CLEAN	AIR & SURFACE

SIEMENS VERIFIED 3RD PARTY TESTING RESULT WITH A 3RD PARTY MICROBIOLOGIST

REFERENCES



ENERGY CLOUD®

INTELLIGENT ENERGY FOR TODAY'S BUILDING ENVIRONMENT

Energy Cloud® is working to help businesses, schools, and commercial spaces reopen with confidence by providing solutions for purifying indoor air and sustained energy measurement for long-term savings on electricity, water and gas usage.



hummingbird™

Hummingbird™ AP

Is an air purification solution using photocatalytic oxidation to destroy airborne pollutants, bacteria, volatile organic compounds, and viruses at a molecular level with nearly 100% efficacy. This ozone-free filtration has been used in IVF labs and medical facilities for years to provide superior air quality.

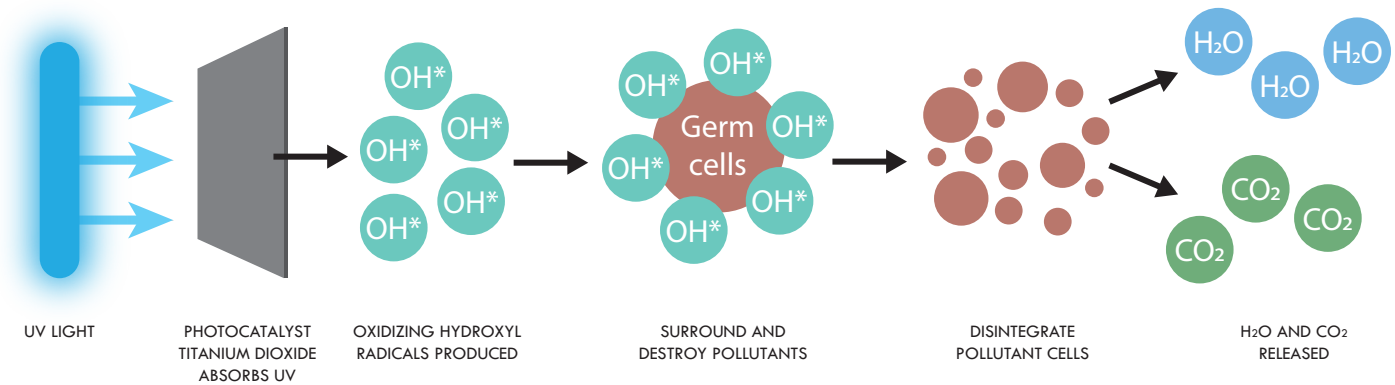
Hummingbird™ Ai

Use real-time data diagnostic from HVAC systems to measure and manage temperature, humidity, air pressure, wet bulb temperature, refrigerant pressure, refrigerant temperature and ambient air.

Hummingbird™ EQ

Is a total solution bringing equilibrium to the HVAC system, keeping run-time in optimal balance. A scalable product solution to improve indoor air quality and energy use with measurable, verified data tracking.

PHOTOCATALYTIC OXIDATION



PROTECT98

CREATE A SAFE ENVIRONMENT INSTANT AND ACCURATE TEMPERATURE

Whether you are interested in the health and safety of your customers, your employees, your students or your family, the PROTECT98 can help you monitor the temperature of incoming individuals fast, efficiently and with no contact necessary. Paired with an existing access control or automatic entry solution, you can rest assured that your visitors and your staff are safe and assured of their fellow occupants.

From simple and elegant to complex and dynamic, the PROTECT98 platform meets the needs of today's environments. Combining stunning visuals with powerful capabilities, advanced customization options with solid reliability and integration levels from the simplicity of a stand-alone unit to the complexity of a fully managed solution.

Multiple presentation options provide the flexibility to deploy where you want, when you want, while still maintaining versatility and visibility to your staff, your patrons and your guests.

SECURITY WHEN YOU NEED IT

In two seconds the Protect98 measures and displays Pass and Fail with both red or green lights visible 360 degrees and a professional and pleasant audio response, with the audio volume set suitably for the environment. This assures a safer environment for employees and customers who will feel good about your place of business.

MOUNTING OPTIONS

Mounting Options include Wall mounting, stable stand, and floor stand. The floor mount enables tilting to accommodate taller and shorter people. The floor stand can be fitted with an optional hand sanitizer dispenser which is touch-less, battery powered or AC powered.



- Measures body temperature, gives 'pass' for normal temperature and 'fail' for abnormal temperature.
- Identify body temperature for up to 30 individuals in approximately 1 minute (1-2 seconds per individual).
- Ability for pass/fail on mask detection in addition to body temperature.
- Able to process facial recognition/optional card access for biometric and/or access control in addition to body temperature.
- 8" IPS Panel, Industrial Design.
- Uses industrial binocular wide dynamic camera, infrared and LED dual fill light.
- Support ID card read, IC card read, QR scanner, biometric reader, etc.
- Relay output to interface with existing automatic entry and/or access control systems.
- Supports 30,000 person database (facial recognition) and identify non-masked people 99.7% and masked recognition can reach 95%, ensuring most people are identified.



COMPLETE SOLUTION TO DETECT & MONITOR HUMAN BODY TEMPERATURE

THERMAL IMAGING IS A FASTER AND MORE SANITARY WAY TO IDENTIFY A PERSON IN A LARGE GROUP WITH A FEVER

Human Body Temperature Measuring technology assists in preventing the spread of viral diseases by allowing for quick, accurate detection of elevated body temperatures. Thermal imaging equipment can easily be installed and implemented to detect elevated body temperature in environments such as airports, hospitals, clinics, office buildings, cruise ships, and any large public gathering location.

The Dahua Human Body Temperature Monitoring solution offers the latest hybrid thermal network camera that combines a Vanadium Oxide (VOx) sensor with a 2 MP visible-light sensor. The solution also provides a blackbody calibration device that maintains a constant temperature as a reference point for the thermal camera. The thermal camera coupled with the blackbody calibration device and a feature-rich 4 TB Network Video Recorder delivers a contact-less solution for continuous, contact-less, and non-invasive temperature monitoring.

THERMAL CAMERA FUNCTIONS

Uncooled Vanadium Oxide (VOx) Technology

Dahua thermal cameras use an uncooled Vanadium Oxide (VOx) sensor that delivers higher thermal sensitivity in a more compact and cost-effective package. Vanadium Oxide cameras are also more reliable, as compared to other thermal imaging technologies, due to less moving parts.

High Thermal Sensitivity

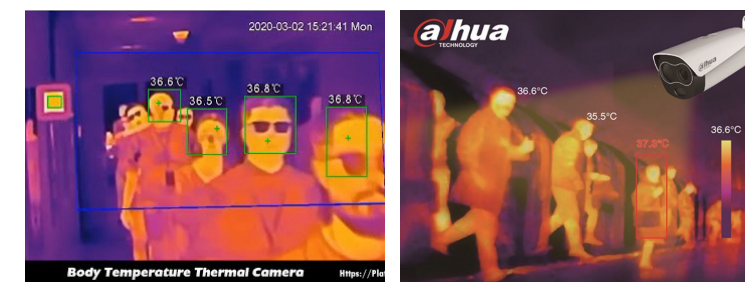
The VOx detector offers high thermal sensitivity (≤ 50 mK) that allows Dahua thermal cameras to distinguish objects in a scene with minimal temperature differences.

Smart Alarm

The camera is equipped with a white-light illuminator and an external speaker that can be triggered when the camera detects an abnormal event either via the thermal or the visible-light sensor. The camera also takes a snapshot of the scene and can record the snapshot.










THERMAL BENEFITS

- Non-contact automatic temperature measurement
- Accurate, fast and multi-person detection
- Records abnormal temperature information automatically
- Captures person's identity automatically





PERSONAL PROTECTIVE EQUIPMENT

<p>KN 95/FFP2</p>  <p>GB EN</p> <p>KN95 - 95% airborne filtration</p>	<p>DISPOSABLE</p>  <p>FDA</p> <p>3-Ply mask with earloop</p>	<p>N95</p>  <p>NIOSH</p> <p>N95 - 95% airborne filtration</p>
<p>NITRILE GLOVES</p>  <p>Powder and Latex Free</p>	<p>FACE SHIELDS</p>  <p>Anti fog clear film w/elastic band and comfort sponge</p>	<p>HAND SANITIZER</p>  <p>Liquid Hand sanitizer 16 oz 80% Alcohol - Pump included</p>
<p>SANITIZING WIPES</p>  <p>Alcohol disinfectant wipes 80 count</p>	<p>SAFETY GLASSES</p>  <p>Antifog - OSHA approved</p>	<p>IR THERMOMETER</p>  <p>Non-contact thermometer</p>

ABOUT MASK RATINGS

The letters in front of each mask type distinguish different national standards.

- The “**N**” series of the mask is the American NIOSH standard.
N - Non-Oily R - Oil Resistant P - Oil Proof
- The “**KN**” series is the Chinese standard,.
- The “**FFP**” series is the European standard.
- The “**KF**” series is the Korean standard.

The number after the letter refers to the protection ability, the larger the number, the higher the protection level. Example:

- N95 refers to the ability to filter out more than 95% of non-oily airborne particles.
- The 90 series is not as protective as 95 but is also resistant to more than 90% of particulates.
- In the European standard FFP the number corresponds to the % of filtration:
FFP1 - 80% FFP2 - 94% FFP3 - 99%

If the number ends with the letter “V”, it indicates that there is a breathing valve on the mask.

- Ex. Such as the common N95 8210V mask.



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